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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

09/30/2003

Michael C Bartol Lowe Gray Steele & Darko 111 Monument Circle Suite 4600 PO Box 44924 Indianapolis, IN 46244-0924

EXAMINER

LEARY, LOUISE N

ART UNIT CLASS-SUBCLASS

1654

435-004000

DATE MAILED: 09/30/2003

APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/018.546	06/17/2002	Joel Mitchen	POLYMER	4724

TITLE OF INVENTION: APPARATUS AND METHOD FOR DETERMINING SUBSTANCES CONTAINED IN A BODY FLUID

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$0	\$650	12/30/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. 130 1-٠.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 4

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450 or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590 09/30/2003

Michael C Bartol Lowe Gray Steele & Darko 111 Monument Circle Suite 4600 PO Box 44924 Indianapolis, IN 46244-0924

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

ansmitted to the OSI 10, on the date indicated below.	
	(Depositor's name)
	(Signature)
	(Date)

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APPLN. TYPE	SMALL ENTITY	ISSUE F		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$650		\$0	\$650	12/30/2003	
EXAMINER		ART UNIT		CLASS-SUBCLASS			
LEARY,	LOUISE N	1654		435-004000			
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of agents OR firm (havi- agent) and	ating on the patent front p up to 3 registered patent, alternatively, (2) the name as a member a register the names of up to 2 repragents. If no name is because	nt attorneys or 1 me of a single red attorney or 2 egistered patent		
3. ASSIGNEE NAME AN	D RESIDENCE DATA TO E	E PRINTED ON T	THE PATENT	(print or type)			
PLEASE NOTE: Unles been previously submitt (A) NAME OF ASSIGN	_			r on the patent. Inclusion Completion of this form is E: (CITY and STATE OR	of assignee data is only appropria NOT a substitute for filing an assi COUNTRY)	ite when an assignment has gnment.	
	e assignee category or category		·		☐ corporation or other private gr	oup entity 🚨 government	
4a. The following fee(s) are	e enclosed:	4t	. Payment of	()			
☐ Issue Fee				the amount of the fee(s) is			
☐ Publication Fee			☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of	Copies		The Director is hereby authorized by charge the required fee(s), or credit any overpayment, Deposit Account Number (enclose an extra copy of this form).				
Director for Patents is requ	ested to apply the Issue Fee a	nd Publication Fee	(if any) or to	re-apply any previously pa	aid issue fee to the application iden	ntified above.	
(Authorized Signature)	·	(Date)					
other than the applicant; interest as shown by the range of the control of inform obtain or retain a benefit application. Confidentiali estimated to take 12 min completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT	and Publication Fee (if require a registered attorney or age cords of the United States Paration is required by 37 CFR by the public which is to five its governed by 35 U.S.C. Lates to complete, including grin to the USPTO. Time with the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLET for Patents, Alexandria, Vir.	ent; or the assignatent and Trademar I.311. The informalile (and by the US 122 and 37 CFR 1. athering, preparing III vary depending require to complete to the Chief Informatics, ATED FORMS TO	ce or other park Office. mation is required by the process of the	arty in ired to ess) an estimate in ired to ess) an estimate in ired to estimate in ired ired ired ired ired ired ired ired			

TRANSMIT THIS FORM WITH FEE(S)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

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10/018,546	06/17/2002 Joel Mitchen		POLYMER	4724	
7590 09/30/2003			EXAM	EXAMINER	
Michael C Bartol			LEARY, LOUISE N		
Lowe Gray Steele & 111 Monument Cir			ART UNIT	PAPER NUMBER	
PO Box 44924 Indianapolis, IN 46244-0924			1654		
			DATE MAILED: 09/30/2003		

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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10/018,546	06/17/2002	Joel Mitchen	POLYMER	4724	
7590 09/30/2003			EXAM	EXAMINER	
Michael C Barto	_	LEARY, L	LEARY, LOUISE N		
Lowe Gray Steele 111 Monument Ci			ART UNIT	PAPER NUMBER	
PO Box 44924			1654		
Indianapolis, IN 46244-0924			DATE MAILED: 09/30/2003		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 44 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 44 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
	10/018,546	MITCHEN ET AL			
Notice of Allowability	Francisco	Art Heit			

Examiner Art Unit Louise N. Leary 1654 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to *preliminary amendment filed 6-17-2002*. 2. The allowed claim(s) is/are <u>1-17</u>. 3. The drawings filed on <u>17 June 2002</u> are accepted by the Examiner. 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🛛 All 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. _____. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). (a) The translation of the foreign language provisional application has been received. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of ach sheet. 9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1⊠ Notice of References Cited (PTO-892) 2 Notice of Informal Patent Application (PTO-152) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 4☐ Interview Summary (PTO-413), Paper No.____. 5 Information Disclosure Statements (PTO-1449), Paper No. ____. 6 Examiner's Amendment/Comment 7 Examiner's Comment Regarding Requirement for Deposit 8 Examiner's Statement of Reasons for Allowance 9 Other of Biological Material

PRIMARY EXAMINER

Application/Control Number: 10/018,546 Page 2

Art Unit: 1654

1. The following is an examiner's statement of reasons for allowance:

The reasons for allowance of the claims is that none of the prior art of record disclose or suggest:

(I) an apparatus for determining the concentration of LDL cholesterol from a sample of whole blood comprising a disbursement layer; a blood cell separation layer; a micelle layer incorporated with a non-ionic surfactant and at least one cyclodextrin or derivative thereof, whereby micelles of HDL or VLDL cholesterol are formed in said layer; a hydrophobic barrier; and a reaction layer containing a cholesterol determining agent wherein the cholesterol measurement substantially corresponds to the concentration of LDL cholesterol in the sample;

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- (II) a method for determining the concentration of LDL cholesterol from a sample of whole blood comprising the steps of (a) contacting whole blood sample with a first layer and separating blood cells from plasma wherein the plasma passes therethrough;(b) contacting plasma passed through with a second layer, forming micelles of HDL or VLDL but not LDL cholesterol and passing the plasma including the micelles through the second layer;
- (c) contacting the plasma including the micelles with a third layer and trapping the micelles while passing the plasma that is now substantially devoid of HDL and VLDL cholesterol therethrough; and (d) contacting the plasma that is now substantially devoid of HDL and VLDL cholesterol with a fourth layer that has been incorporated with a

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Application/Control Number: 10/018,546

Art Unit: 1654

cholesterol determining agent whereby the cholesterol measurement obtained corresponds to the concentration of LDL cholesterol in the sample;

(III) a method for determining the concentration of LDL cholesterol from a sample of whole blood comprising the steps of (a) contacting the whole blood sample with a first layer, separating blood cells from plasma and passing the plasma therethrough; and (b) contacting the plasma obtained in step (a) with a reaction layer incorporated with a cholesterol determining agent and CHAPS as claimed in the present invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louise N. Leary whose telephone number is (703) 308-3533. The examiner can normally be reached on Monday to Friday from 10 to 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback, can be reached on (703) 306-3220. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Art Unit: 1654

For 24 hour access to patent application information, 7 days a week, or for filing patent applications electronically, please visit our website at www.uspto.gov and click on the button "Patent Electronic Business /Center" for more information.

LOUISE N. LEARY PRIMARY EXAMINER

September 29, 2003